(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 20 January 2005 (20.01.2005)

PCT

(10) International Publication Number WO 2005/004657 A1

(51) International Patent Classification7: A43B 13/20, 7/06

(21) International Application Number:

PCT/KR2004/001198

(22) International Filing Date: 21 May 2004 (21.05.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 10-2003-0047493

12 July 2003 (12.07.2003)

(71) Applicant (for all designated States except US): E & O KOREA CO., LTD. [KR/KR]; 5 Floor, 204-6, Nonhyeon 1-dong, Gangnam-gu, Seoul Metropolitan City 135-826 (KR).

(72) Inventor; and

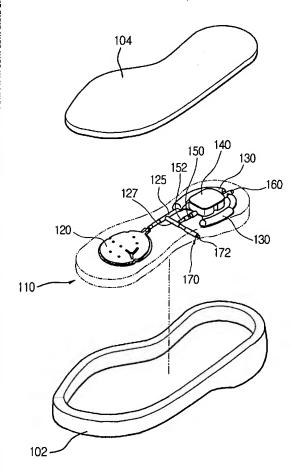
(75) Inventor/Applicant (for US only): LEE, Kwangsoo

[KR/KR]; 29-245, Gamman-dong, Nam-gu, Busan City 608-070 (KR).

- (74) Agents: PARK, Wonyong et al.; 5 Floor, Shinwon Bldg., 823-14, Yeoksam 1-dong, Gangnam-gu, Seoul 135-933 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: PUMPING DEVICE OF SHOES



(57) Abstract: The present invention discloses a pumping device of a shoe 100 includes a cushion body (110) formed inside a sole of the shoe (110) and having front and back air chambers (120 and 130) formed therein in such a manner as to be disposed at the front and back portions thereof; an automatic pump (140) mounted adjacent to the back air chamber (130) in such a manner as to communicate with the back air chamber (130) and having a height (H2) higher than a height (H1) of the back air chamber (130); a suction valve (150) and a check valve (160) mounted at the front and back sides of the automatic pump (140); and a pressure adjusting valve (170) formed at a connecting valve (125) for connecting the back air chamber (130) with the front air chamber (120).

WO 2005/004657 A1

European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

with international search report